

*The Stock Box*

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**The Marconi System.**  
(Continued from 1)

ing between the brass balls, sets up an electric commotion in the attached vertical wire throughout its length, which is radiated into space in all directions, much as light is radiated from a lamp. Part of the energy thus radiated will be absorbed by any other vertical wire upon which it impinges and it is true this absorbed energy which at the receiving end of the transmission is instrumental in reproducing the signals. Intervening mountains or the curvature of the earth have been found to have but little effect.

Now at the receiving end St. Johns' end we have as before a ground plate G, connected by copper wire to one end of the "coherer" C, the other end of which is attached to a wire which is kept elevated by means of the kite K. The coherer is nothing more or less than a short glass tube, which has been highly exhausted of air. Electrical connection is made with the interior by means of a platinum wire fused through the glass one at each end. To these platinum wires on the inside are soldered a pair of pure silver plugs which just fit the inside of the tube. The silver plugs are separated a small fraction of an inch, the small space that intervenes being loosely filled with a mixture of silver and nickel filings. Ordinarily these filings will not permit an electrical current to circulate through them. However, when subjected to the effect of the energy radiated by the transmitting end, which is absorbed by the kite wire at the receiving end, these particles of metal in the coherer apparently become, for the time being, welded together into a conducting mass which acts much as a solid wire would. While the coherer is thus under influence from the transmitter and is therefore a conductor, the galvanic battery at B is able to send a weak current of electricity through it and hence through the magnet of a telegraphic relay R. Under these circumstances the last named piece of apparatus causes a local or secondary electric circuit to be thrown into action or closed. The galvanic battery L is then able to send a current of electricity through an ordinary Morse sounder M, which utters the familiar click by means of which the messagees are read. A second piece of apparatus, in the sea circuit with the Morse relay, and for which any ordinary electric bell, N, might be substituted is known as the decoherer. The function of the decoherer is to shake up or jar the coherer as long as sparks are passing from P to P, so that the instant they cease, the last tap of N will cause the filings no longer held in place by the electric forces from the kite wire, to fall apart or decohere thus cutting off the circuit from battery B. The decoherer is usually mounted so that the clapper will actually tap the glass of the coherer, but they are shown apart in the drawing merely to avoid complication of wires.

**ANNOUNCEMENTS.**

**Engineering Society.**

The executive board of the engineering society has decided to postpone the regular meeting until next Thursday instead of Wednesday as intended. The meeting will be held in room 211 of the gymnasium at the request of the electrical engineering department which will give its annual display at that place on the same evening. At 9 o'clock the Sigma Xi society will hold its annual open meeting in Memorial hall. All engineering students are urged to be present.

S. D. CLINTON, Pres.

**Seniors.**

All those seniors who have ordered canes and have not yet called for them are requested to do so at once. The committee in charge is held responsible for the orders and is therefore anxious that his matter be attended to at once.

**Baseball Men.**

All baseball men report at once to Coach Booth in the armory. Cage work will begin at once.

J. HAYS BELL, Capt.

**Freshmen.**

Freshmen Class Meeting changed from Friday, Feb. 1st to Monday, Feb. 17th, at 10 o'clock. Election of officers for second semester.

B. G. LEWIS, Pres.

**Interstate Debaters.**

The interstate debaters on the reciprocity question will meet in the new chapel this afternoon at 5 o'clock.

**Attention, Seniors.**

All seniors who wish to take the teacher's certificate in June must report at the Registrar's office IMMEDIATELY.

ELLEN SMITH, Registrar.

**Seniors.**

All Seniors who have not paid their subscription to the Alumni Organ fund will please leave same at Chancellor's office, at once.

By Order of Committee.

AS an office for Mr. Fogg in U. 304, has been reserved this semester, he announces regular consultation hours, for the present, from 11:20 to 12 o'clock on Tuesday and Wednesday.

The Michigan law students have established a journal called the Michigan Law Review.

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